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- Pro His Arg Pro Arg Phe Ser Pro Ala Thr His Pro Ser Glu Gly Leu 115 120 125
- Glu Glu Asn Tyr Cys Arg Asn Pro Asp Asn Asp Pro Gln Gly Pro Trp 130 135 140
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- Glu Cys Glu Glu Glu Cys Met His Cys Ser Gly Glu Asn Tyr Asp Gly
 165 170 175
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- Gln Ser Pro His Ala His Gly Tyr Ile Pro Ser Lys Phe Pro Asn Lys 195 200 205
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- Ser Gln Val Arg Trp Glu Tyr Cys Lys Ile Pro Ser Cys Asp Ser Ser 325 330 335

- Pro Val Ser Thr Glu Gln Leu Ala Pro Thr Ala Pro Pro Glu Leu Thr 340 345 350
- Pro Val Val Gln Asp Cys Tyr His Gly Asp Gly Gln Ser Tyr Arg Gly 355 360 365
- Thr Ser Ser Thr Thr Thr Gly Lys Lys Cys Gln Ser Trp Ser Ser 370 375 380
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- Lys Lys Cys Ser Gly Thr Glu Ala Ser Val Val Ala Pro Pro Pro Val 435
- Val Leu Leu Pro Asp Val Glu Thr Pro Ser Glu Glu Asp Cys Met Phe 450 455 460
- Gly Asn Gly Lys Gly Tyr Arg Gly Lys Arg Ala Thr Thr Val Thr Gly 465 470 475 480
- Thr Pro Cys Gln Asp Trp Ala Ala Gln Glu Pro His Arg His Ser Ile
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- Arg Asn Pro Asp Gly Asp Val Gly Gly Pro Trp Cys Tyr Thr Thr Asn 515 520 525
- Pro Arg Lys Leu Tyr Asp Tyr Cys Asp Val Pro Gln Cys Ala Ala Pro 530 535 540
- Ser Phe Asp Cys Gly Lys Pro Gln Val Glu Pro Lys Lys Cys Pro Gly 545 550 555 556
- Arg Val Val Gly Gly Cys Val Ala His Pro His Ser Trp Pro Trp Gln 565 570 575
- Val Ser Leu Arg Thr Arg Phe Gly Met His Phe Cys Gly Gly Thr Leu 580 585 590

Ile Ser Pro Glu Trp Val Leu Thr Ala Ala His Cys Leu Glu Lys Ser 595 600 605

Pro Arg Pro Ser Ser Tyr Lys Val Ile Leu Gly Ala His Gln Glu Val 610 620

Asn Leu Glu Pro His Val Gln Glu Ile Glu Val Ser Arg Leu Phe Leu 625 630 635 640

Glu Pro Thr Arg Lys Asp Ile Ala Leu Leu Lys Leu Ser Ser Pro Ala 645 650 655

Val Ile Thr Asp Lys Val Ile Pro Ala Cys Leu Pro Ser Pro Asn Tyr 660 665 670

Val Val Ala Asp Arg Thr Glu Cys Phe Ile Thr Gly Trp Gly Glu Thr 675 680 685

Gln Gly Thr Phe Gly Ala Gly Leu Leu Lys Glu Ala Gln Leu Pro Val 690 695 700

Ile Glu Asn Lys Val Cys Asn Arg Tyr Glu Phe Leu Asn Gly Arg Val 705 710 715 720

Gln Ser Thr Glu Leu Cys Ala Gly His Leu Ala Gly Gly Thr Asp Ser 725 730 735

Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Cys Phe Glu Lys Asp Lys
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Tyr Ile Leu Gln Gly Val Thr Ser Trp Gly Leu Gly Cys Ala Arg Pro
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Met Leu Pro Ala Ser Pro Lys Met Glu His Lys Ala Val Val Phe Leu

| C. |
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| Lil |
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| ## ## |
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| Leu | Leu | Leu | Phe | Leu | Lys | Ser | Gly | Leu | Gly | Asp | Leu | Leu | Asp | Asp | Tyr |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
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 35 40 45
- Ala Gly Arg Ser Val Glu Asp Cys Ala Ala Lys Cys Glu Glu Glu Thr
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- Asp Phe Val Cys Arg Ala Phe Gln Tyr His Ser Lys Glu Gln Gln Cys 65 70 75 80
- Val Val Met Ala Glu Asn Ser Lys Asn Thr Pro Val Phe Arg Met Arg 85 90 95
- Asp Val Ile Leu Tyr Glu Lys Arg Ile Tyr Leu Leu Glu Cys Lys Thr 100 105 110
- Gly Asn Gly Gln Thr Tyr Arg Gly Thr Thr Ala Glu Thr Lys Ser Gly
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- Val Thr Cys Gln Lys Trp Ser Ala Thr Ser Pro His Val Pro Lys Phe 130 135 140
- Asn Pro Asp Asn Asp Glu Asn Gly Pro Trp Cys Tyr Thr Thr Asp Pro 165 170 175
- Asp Lys Arg Tyr Asp Tyr Cys Asp Ile Pro Glu Cys Glu Asp Lys Cys
 180 185 190
- Met His Cys Ser Gly Glu Asn Tyr Glu Gly Lys Ile Ala Lys Thr Met
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- Ser Gly Arg Asp Cys Gln Ala Trp Asp Ser Gln Ser Pro His Ala His 210 215 220
- Gly Tyr Ile Pro Ser Lys Phe Pro Asn Lys Asn Leu Lys Met Asn Tyr 225 230 235 240
- Cys Arg Asn Pro Asp Gly Glu Pro Arg Pro Trp Cys Phe Thr Thr Asp 245 250 255
- Pro Gln Lys Arg Trp Glu Phe Cys Asp Ile Pro Arg Cys Thr Thr Pro

260 265 270

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Glu Pro His Gln His Ser Ile Phe Thr Pro Glu Thr Asn Pro Gln Ser

505

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|-----|-----|-----|
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| Gly | 7 Let 530 | | ı Arç | j Ası | Tyr | : Сув 535 | | Asr | Pro | Asp | Gly 540 | | Val | . Asn | Gly |
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| Val | . Pro | Glr | суя | 565 | | Ser | Phe | Asp | Cys 570 | | Lys | Pro | Lys | Val 575 | Glu |
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| Leu | Ser | Arg 675 | Pro | Ala | Ile | Ile | Thr 680 | Lys | Glu | Val | Ile | Pro 685 | Ala | Cys | Leu |
| Pro | Pro 690 | Pro | Asn | Tyr | Met | Val 695 | Ala | Ala | Arg | Thr | Glu 700 | Сув | Tyr | Ile | Thr |
| Gly 705 | Trp | Gly | Glu | Thr | Gln 710 | Gly | Thr | Phe | Gly | Glu 715 | Gly | Leu | Leu | Lys | Glu 720 |
| Ala | His | Leu | Pro | Val 725 | Ile | Glu | Asn | Lys | Val 730 | Сув | Asn | Arg | Asn | Glu 735 | Tyr |
| Leu | Asp | Gly | Arg 740 | Val | Lys | Pro | Thr | Glu 745 | Leu | Сув | Ala | | His 750 | Leu | Ile |
| Gly | Gly | Thr 755 | Asp | Ser | Сув | | Gly 760 | Asp | Ser | Gly | | Pro 765 | Leu | Val | Сув |

Phe Glu Lys Asp Lys Tyr Ile Leu Gln Gly Val Thr Ser Trp Gly Leu

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Leu Glu Lys Asn Tyr Cys Arg Asn Pro Asp Gly Asp Val Asn Gly Pro 50 55 60

Trp Cys Tyr Thr Met Asn Gln Arg Lys Leu Phe Asp Tyr Cys Asp Val 65 70 75 80

Pro Gln Cys Val Ser Thr Ser Phe Asp Cys Gly Lys Pro Gln Val Glu 85 90 95

Pro Lys Lys Cys Pro Gly Arg Val Val Gly Gly Cys Val Ala Asn Pro 100 105 110

His Ser Trp Pro Trp Gln Ile Ser Leu Arg Thr Arg Tyr Gly Lys His
115 120 125

Phe Cys Gly Gly Thr Leu Ile Ser Pro Glu Trp Val Leu Thr Ala Ala 130 135 140

His Cys Leu Glu Arg Ser Ser Arg Pro Ala Ser Tyr Lys Val Ile Leu 145 150 155 160

Gly Ala His Lys Glu Val Asn Leu Glu Ser Asp Val Gln Glu Ile Glu 165 170 175 Val Tyr Lys Leu Phe Leu Glu Pro Thr Arg Ala Asp Ile Ala Leu Leu 180 185 190

Lys Leu Ser Ser Pro Ala Val Ile Thr Ser Lys Val Ile Pro Ala Cys 195 200 205

Leu Pro Pro Pro Asn Tyr Val Val Ala Asp Arg Thr Leu Cys Tyr Ile 210 215 220

Thr Gly Trp Gly Glu Thr Gln Gly Thr Tyr Gly Ala Gly Leu Leu Lys
225 230 235 240

Glu Ala Gln Leu Pro Val Ile Glu Asn Lys Val Cys Asn Arg Tyr Glu 245 250 255

Tyr Leu Asn Gly Arg Val Lys Ser Thr Glu Leu Cys Ala Gly Asn Leu 260 265 270

Ala Gly Gly Thr Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val 275 280 285

Cys Phe Glu Lys Asp Lys Tyr Ile Leu Gln Gly Val Thr Ser Trp Gly 290 295 300

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Leu Cys Ser Ser Thr Lys Lys Gln Leu Ser Val Gly Ser Thr Glu Glu
35 40 45

Cys Ala Val Lys Cys Glu Lys Glu Thr Ser Phe Ile Cys Arg Ser Phe 50 55 60

| GIN | Tyr | H18 | ser | гàв | GIu | GIn | Gln | Cys | Val | Ile | Met | Ala | Glu | Asn | Ser |
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- Lys Met Tyr Leu Ser Glu Cys Lys Val Gly Asn Gly Lys Tyr Tyr Arg 100 105 110
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- Tyr Val Gly Lys Ile Ser Arg Thr Met Ser Gly Leu Glu Cys Gln Pro 195 200 205
- Trp Asp Ser Gln Ile Pro His Pro His Gly Phe Ile Pro Ser Lys Phe 210 220
- Pro Ser Lys Asn Leu Lys Met Asn Tyr Cys Arg Asn Pro Asp Gly Glu 225 235 240
- Pro Arg Pro Trp Cys Phe Thr Met Asp Arg Asn Lys Arg Trp Glu Tyr
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- Cys Asp Ile Pro Arg Cys Thr Thr Pro Pro Pro Pro Ser Gly Pro Thr 260 265 270
- Tyr Gln Cys Leu Met Gly Asn Gly Glu His Tyr Gln Gly Asn Val Ala 275 280 285
- Val Thr Val Ser Gly Leu Thr Cys Gln Arg Trp Gly Glu Gln Ser Pro 290 295 300
- His Arg His Asp Arg Thr Pro Glu Asn Tyr Pro Cys Lys Asn Leu Asp 305 310 315 320

Glu Asn Tyr Cys Arg Asn Pro Asp Gly Glu Pro Ala Pro Trp Cys Phe 325 330 335

Thr Thr Asn Ser Ser Val Arg Trp Glu Phe Cys Lys Ile Pro Asp Cys 340 345 350

Val Ser Ser Ala Ser Glu Thr Glu His Ser Asp Ala Pro Val Ile Val 355 360 365

Pro Pro Glu Gln Thr Pro Val Val Gln Glu Cys Tyr Gln Gly Asn Gly 370 375 380

Gln Thr Tyr Arg Gly Thr Ser Ser Thr Thr Ile Thr Gly Lys Lys Cys 385 390 395 400

Gln Pro Trp Thr Ser Met Arg Pro His Arg His Ser Lys Thr Pro Glu 405 410 415

Asn Tyr Pro Asp Ala Asp Leu Thr Met Asn Tyr Cys Arg Asn Pro Asp 420 425 430

Gly Asp Lys Gly Pro Trp Cys Tyr Thr Thr Asp Pro Ser Val Arg Trp
435 440 445

Glu Phe Cys Asn Leu Lys Lys Cys Ser Gly Thr Glu Met Ser Ala Thr 450 455 460

Asn Ser Ser Pro Val Gln Val Ser Ser Ala Ser Glu Ser Ser Glu Gln 465 470 475 480

Asp Cys Ile Ile Asp Asn Gly Lys Gly Tyr Arg Gly Thr Lys Ala Thr 485 490 495

Thr Gly Ala Gly Thr Pro Cys Gln Ala Trp Ala Ala Gln Glu Pro His
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Arg His Ser Ile Phe Thr Pro Glu Thr Asn Pro Arg Ala Asp Leu Gln 515 520 525

Glu Asn Tyr Cys Arg Asn Pro Asp Gly Asp Ala Asn Gly Pro Trp Cys 530 535 540

Tyr Thr Thr Asn Pro Arg Lys Leu Phe Asp Tyr Cys Asp Ile Pro His 545 550 555 560

Cys Val Ser Pro Ser Ser Ala Asp Cys Gly Lys Pro Lys Val Glu Pro
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Lys Lys Cys Pro Gly Arg Val Gly Cys Val Ala His Pro His Ser 580 585 590

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Gly Thr Leu Ile Ser Pro Glu Trp Val Val Thr Ala Ala His Cys Leu 610 615 620

Glu Lys Phe Ser Asn Pro Ala Ile Tyr Lys Val Val Leu Gly Ala His 625 630 635 640

Gln Glu Thr Arg Leu Glu Arg Asp Val Gln Ile Lys Gly Val Thr Lys 645 650 655

Met Phe Leu Glu Pro Tyr Arg Ala Asp Ile Ala Leu Leu Lys Leu Ser 660 665 670

Ser Pro Ala Ile Ile Thr Asp Lys Asp His Pro Ala Cys Leu Pro Asn 675 680 685

Ser Asn Tyr Met Val Ala Asp Arg Ser Leu Cys Tyr Ile Thr Gly Trp 690 695 700

Gly Glu Thr Lys Gly Thr Tyr Gly Ala Gly Leu Leu Lys Glu Ala Gln 705 710 715 720

Leu Pro Val Ile Glu Lys Val Cys Asn Arg Gln Ser Phe Leu Asn Gly
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Arg Val Arg Ser Thr Glu Leu Cys Ala Gly His Leu Ala Gly Gly Val 740 745 750

Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Cys Phe Glu Lys
755 760 765

Asp Arg Tyr Ile Leu Gln Gly Val Thr Ser Trp Gly Leu Gly Cys Ala 770 775 780

Arg Leu Thr Arg Pro Gly Val Tyr Val Arg Val Ser Arg Tyr Val Ser 785 790 795 800

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Asn Pro Trp Ala Asn Leu Glu Lys Asn Tyr Cys Arg Asn Pro Asp Gly 50 55 60

Asp Val Asn Gly Pro Trp Cys Tyr Thr Met Asn Pro Gln Lys Leu Phe 65 70 75 80

Asp Tyr Cys Asp Val Pro Gln Cys Glu Ser Ser Pro Phe Asp Cys Gly
85 90 95

Lys Pro Lys Val Glu Pro Lys Lys Cys Ser Gly Arg Ile Val Gly Gly 100 105 110

Cys Val Ala Ile Ala His Ser Trp Pro Trp Gln Ile Ser Leu Arg Thr 115 120 125

Arg Phe Gly Arg His Phe Cys Gly Gly Thr Leu Ile Ser Pro Glu Trp 130 135 140

Val Leu Thr Ala Ala His Cys Leu Glu Arg Ser Ser Arg Pro Ser Thr 145 150 155 160

Tyr Lys Val Val Leu Gly Thr His His Glu Leu Arg Leu Ala Ala Gly
165 170 175

Ala Gln Gln Ile Asp Val Ser Lys Leu Phe Leu Glu Pro Ser Arg Ala 180 185 190

Asp Ile Ala Leu Leu Lys Leu Ser Ser Pro Ala Ile Ile Thr Gln Asn 195 200 205

Val Ile Pro Ala Cys Leu Pro Pro Ala Asp Tyr Val Val Ala Asn Trp 210 215 220

Ala Glu Cys Phe Val Thr Gly Trp Gly Glu Thr Gln Asp Ser Ser Asn

u

225 230 235 240

Ala Gly Val Leu Lys Glu Ala Gln Leu Pro Val Ile Glu Asn Lys Val 245 250 255

Cys Asn Arg Tyr Glu Tyr Leu Asn Gly Arg Val Lys Ser Thr Glu Leu 260 265 270

Cys Ala Gly His Leu Val Gly Gly Val Asp Ser Cys Gln Gly Asp Ser 275 280 285

Gly Gly Pro Leu Val Cys Phe Glu Lys Asp Lys Tyr Ile Leu Gln Gly 290 295 300

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Leu Phe Ser Ile Thr Lys Lys Gln Leu Gly Ala Gly Ser Ile Glu Glu
35 40 45

Cys Ala Ala Lys Cys Glu Glu Glu Glu Glu Phe Thr Cys Arg Ser Phe 50 55 60

Gln Tyr His Ser Lys Glu Gln Gln Cys Val Ile Met Ala Glu Asn Arg
65 70 75 80

Lys Ser Ser Ile Val Phe Arg Met Arg Asp Val Val Leu Phe Glu Lys 85 90 95 Lys Val Tyr Leu Ser Glu Cys Lys Thr Gly Asn Gly Lys Asn Tyr Arg 100 105 110

Gly Thr Met Ser Lys Thr Arg Thr Gly Ile Thr Cys Gln Lys Trp Ser 115 120 125

Ser Thr Ser Pro His Arg Pro Thr Phe Ser Pro Ala Thr His Pro Ser 130 135 140

Glu Gly Leu Glu Glu Asn Tyr Cys Arg Asn Pro Asp Asn Asp Gly Gln 145 150 155 160

Gly Pro Trp Cys Tyr Thr Thr Asp Pro Glu Glu Arg Phe Asp Tyr Cys
165 170 175

Asp Ile Pro Glu Cys Glu Asp Glu Cys Met His Cys Ser Gly Glu Asn 180 185 190

Tyr Asp Gly Lys Ile Ser Lys Thr Met Ser Gly Leu Glu Cys Gln Ala 195 200 205

Trp Asp Ser Gln Ser Pro His Ala His Gly Tyr Ile Pro Ser Lys Phe 210 215 220

Pro Asn Lys Asn Leu Lys Lys Asn Tyr Cys Arg Asn Pro Asp Gly Glu 225 230 235 240

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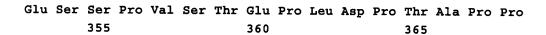
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Glu Asn Tyr Cys Arg Asn Pro Asp Gly Glu Lys Ala Pro Trp Cys Tyr 325 330 335

Thr Thr Asn Ser Gln Val Arg Trp Glu Tyr Cys Lys Ile Pro Ser Cys 340 345 350



Glu Leu Thr Pro Val Val Gln Glu Cys Tyr His Gly Asp Gly Gln Ser 370 375 380

Tyr Arg Gly Thr Ser Ser Thr Thr Thr Gly Lys Lys Cys Gln Ser 385 390 395 400

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Pro Asn Ala Gly Leu Thr Met Asn Tyr Cys Arg Asn Pro Asp Ala Asp 420 425 430

Lys Gly Pro Trp Cys Phe Thr Thr Asp Pro Ser Val Arg Trp Glu Tyr 435 440 445

Cys Asn Leu Lys Lys Cys Ser Gly Thr Glu Gly Ser Val Ala Ala Pro 450 455 460

Pro Pro Val Ala Gln Leu Pro Asp Ala Glu Thr Pro Ser Glu Glu Asp 465 470 475 480

Cys Met Phe Gly Asn Gly Lys Gly Tyr Arg Gly Lys Lys Ala Thr Thr 485 490 495

Val Thr Gly Thr Pro Cys Gln Glu Trp Ala Ala Gln Glu Pro His Ser 500 505 510

His Arg Ile Phe Thr Pro Glu Thr Asn Pro Arg Ala Gly Leu Glu Lys 515 520 525

Asn Tyr Cys Arg Asn Pro Asp Gly Asp Val Gly Gly Pro Trp Cys Tyr 530 535 540

Thr Thr Asn Pro Arg Lys Leu Phe Asp Tyr Cys Asp Val Pro Gln Cys 545 550 555 560

Ala Ala Ser Ser Phe Asp Cys Gly Lys Pro Gln Val Glu Pro Lys Lys
565 570 575

Cys Pro Gly Arg Val Val Gly Gly Cys Val Ala Tyr Pro His Ser Trp
580 585 590

Pro Trp Gln Ile Ser Leu Arg Thr Arg Leu Gly Met His Phe Cys Gly
595 600 605



Gly Thr Leu Ile Ser Pro Glu Trp Val Leu Thr Ala Ala His Cys Leu 610 620

Glu Lys Ser Ser Arg Pro Ser Phe Tyr Lys Val Ile Leu Gly Ala His 625 630 635 640

Arg Glu Val His Leu Glu Pro His Val Gln Glu Ile Glu Val Ser Lys 645 650 655

Met Phe Ser Glu Pro Ala Arg Ala Asp Ile Ala Leu Leu Lys Leu Ser 660 665 670

Ser Pro Ala Ile Ile Thr Asp Lys Val Ile Pro Ala Cys Leu Pro Ser 675 680 685

Pro Asn Tyr Val Val Ala Asp Arg Thr Glu Cys Phe Ile Thr Gly Trp 690 695 700

Gly Glu Thr Gln Gly Thr Tyr Gly Ala Gly Leu Leu Lys Glu Ala Arg
705 710 715 720

Leu Pro Val Ile Glu Asn Lys Val Cys Asn Arg Tyr Glu Phe Leu Asn 725 730 735

Gly Thr Val Lys Thr Thr Glu Leu Cys Ala Gly His Leu Ala Gly Gly
740 745 750

Thr Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Cys Phe Glu
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Lys Asp Lys Tyr Ile Leu Gln Gly Val Thr Ser Trp Gly Leu Gly Cys
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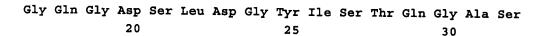
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- Cys Leu Ala Lys Cys Glu Gly Glu Thr Asp Phe Val Cys Arg Ser Phe 50 55 60
- Gln Tyr His Ser Lys Glu Gln Gln Cys Val Ile Met Ala Glu Asn Ser 65 70 75 80
- Lys Thr Ser Ser Ile Ile Arg Met Arg Asp Val Ile Leu Phe Glu Lys
 85 90 95
- Arg Val Tyr Leu Ser Glu Cys Lys Thr Gly Ile Gly Asn Gly Tyr Arg
 100 105 110
- Gly Thr Met Ser Arg Thr Lys Ser Gly Val Ala Cys Gln Lys Trp Gly
 115 120 125
- Ala Thr Phe Pro His Val Pro Asn Tyr Ser Pro Ser Thr His Pro Asn 130 135 140
- Glu Gly Leu Glu Glu Asn Tyr Cys Arg Asn Pro Asp Asn Asp Glu Gln 145 150 155 160
- Gly Pro Trp Cys Tyr Thr Thr Asp Pro Asp Lys Arg Tyr Asp Tyr Cys 165 170 175
- Asn Ile Pro Glu Cys Glu Glu Glu Cys Met Tyr Cys Ser Gly Glu Lys 180 185 190
- Tyr Glu Gly Lys Ile Ser Lys Thr Met Ser Gly Leu Asp Cys Gln Ala 195 200 205
- Trp Asp Ser Gln Ser Pro His Ala His Gly Tyr Ile Pro Ala Lys Phe 210 215 220
- Pro Ser Lys Asn Leu Lys Met Asn Tyr Cys His Asn Pro Asp Gly Glu 225 230 235 240
- Pro Arg Pro Trp Cys Phe Thr Thr Asp Pro Thr Lys Arg Trp Glu Tyr
 245 250 255
- Cys Asp Ile Pro Arg Cys Thr Thr Pro Pro Pro Pro Pro Ser Pro Thr 260 265 270



Tyr Gln Cys Leu Lys Gly Arg Gly Glu Asn Tyr Arg Gly Thr Val Ser 275 280 285

Val Thr Val Ser Gly Lys Thr Cys Gln Arg Trp Ser Glu Gln Thr Pro 290 295 300

His Arg His Asn Arg Thr Pro Glu Asn Phe Pro Cys Lys Asn Leu Glu 305 310 315 320

Glu Asn Tyr Cys Arg Asn Pro Asp Gly Glu Thr Ala Pro Trp Cys Tyr 325 330 335

Thr Thr Asp Ser Gln Leu Arg Trp Glu Tyr Cys Glu Ile Pro Ser Cys 340 345 350

Glu Ser Ser Ala Ser Pro Asp Gln Ser Asp Ser Ser Val Pro Pro Glu 355 360 365

Glu Gln Thr Pro Val Val Gln Glu Cys Tyr Gln Ser Asp Gly Gln Ser 370 375 380

Tyr Arg Gly Thr Ser Ser Thr Thr Ile Thr Gly Lys Lys Cys Gln Ser 385 390 395 400

Trp Ala Ala Met Phe Pro His Arg His Ser Lys Thr Pro Glu Asn Phe 405 410 415

Pro Asp Ala Gly Leu Glu Met Asn Tyr Cys Arg Asn Pro Asp Gly Asp 420 425 430

Lys Gly Pro Trp Cys Tyr Thr Thr Asp Pro Ser Val Arg Trp Glu Tyr 435 440 445

Cys Asn Leu Lys Arg Cys Ser Glu Thr Gly Gly Ser Val Val Glu Leu 450 455 460

Pro Thr Val Ser Gln Glu Pro Ser Gly Pro Ser Asp Ser Glu Thr Asp 465 470 475 480

Cys Met Tyr Gly Asn Gly Lys Asp Tyr Arg Gly Lys Thr Ala Val Thr 485 490 495

Ala Ala Gly Thr Pro Cys Gln Gly Trp Ala Ala Gln Glu Pro His Arg
500 505 510

His Ser Ile Phe Thr Pro Gln Thr Asn Pro Arg Ala Asp Leu Glu Lys 515 520 525



Asn Tyr Cys Arg Asn Pro Asp Gly Asp Val Asn Gly Pro Trp Cys Tyr 530 535 540

Thr Thr Asn Pro Arg Lys Leu Tyr Asp Tyr Cys Asp Ile Pro Leu Cys 545 550 555 560

Ala Ser Ala Ser Ser Phe Glu Cys Gly Lys Pro Gln Val Glu Pro Lys 565 570 575

Lys Cys Pro Gly Arg Val Val Gly Gly Cys Val Ala Asn Pro His Ser 580 585 590

Trp Pro Trp Gln Ile Ser Leu Arg Thr Arg Phe Thr Gly Gln His Phe
595 600 605

Cys Gly Gly Thr Leu Ile Ala Pro Glu Trp Val Leu Thr Ala Ala His 610 615 620

Cys Leu Glu Lys Ser Ser Arg Pro Glu Phe Tyr Lys Val Ile Leu Gly 625 630 635 640

Ala His Glu Glu Tyr Ile Arg Gly Leu Asp Val Gln Glu Ile Ser Val 645 650 655

Ala Lys Leu Ile Leu Glu Pro Asn Asn Arg Asp Ile Ala Leu Leu Lys 660 665 670

Leu Ser Arg Pro Ala Thr Ile Thr Asp Lys Val Ile Pro Ala Cys Leu 675 680 685

Pro Ser Pro Asn Tyr Met Val Ala Asp Arg Thr Ile Cys Tyr Ile Thr 690 695 700

Gly Trp Gly Glu Thr Gln Gly Thr Phe Gly Ala Gly Arg Leu Lys Glu
705 710 715 720

Ala Gln Leu Pro Val Ile Glu Asn Lys Val Cys Asn Arg Val Glu Tyr
725 730 735

Leu Asn Asn Arg Val Lys Ser Thr Glu Leu Cys Ala Gly Gln Leu Ala
740 745 750

Gly Gly Val Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Cys
755 760 765

Phe Glu Lys Asp Lys Tyr Ile Leu Gln Gly Val Thr Ser Trp Gly Leu 770 780



Gly Cys Ala Arg Pro Asn Lys Pro Gly Val Tyr Val Arg Val Ser Arg 785 790 795 800

Phe Val Asp Trp Ile Glu Arg Glu Met Arg Asn Asn 805 810

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Leu Ser Arg Lys Gln Val Ala Ala Arg Ser Val Glu Glu Cys Ala Ala 20 25 30

Lys Cys Glu Ala Glu Thr Asn Phe Ile Cys Arg Ala Phe Gln Tyr His
35 40 45

Ser Lys Asp Gln Gln Cys Val Val Met Ala Glu Asn Ser Lys Thr Ser 50 55 60

Pro Ile Ala Arg Met Arg Asp Val Val Leu Phe Glu Lys Arg Ile Tyr 65 70 75 80

Leu Ser Glu Cys Lys Thr Gly Asn Gly Lys Asn Tyr Arg Gly Thr Thr 85 90 95

Ser Lys Thr Lys Ser Gly Val Ile Cys Gln Lys Trp Ser Val Ser Ser 100 105 110

Pro His Ile Pro Lys Tyr Ser Pro Glu Lys Phe Pro Leu Ala Gly Leu 115 120 125

Glu Glu Asn Tyr Cys Arg Asn Pro Asp Asn Asp Glu Lys Gly Pro Trp 130 135 140

Cys Tyr Thr Thr Asp Pro Glu Thr Arg Phe Asp Tyr Cys Asp Ile Pro 145 150 155 160

Glu Cys Glu Asp Glu Cys Met His Cys Ser Gly Glu His Tyr Glu Gly 165 170 175

Lys Ile Ser Lys Thr Met Ser Gly Ile Glu Cys Gln Ser Trp Gly Ser

180 185 190

| Gln | Ser | 195 | | a Ala | His | Gly | 200 | | ı Pro | Se1 | r Lys | 205 | | Asr | Ly. |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|------------|------------|------------|------------|------------|
| Asn | Leu 210 | | Met | Asn | Туг | Cys 215 | | , Asr | Pro | Asp | Gly 220 | | Pro | Arg | Pr |
| Trp 225 | | Phe | Thr | Thr | Asp 230 | | Asn | Lys | Arg | 7 Trp 235 | | Phe | сув | Asp | 240 |
| Pro | Arg | Сув | Thr | Thr 245 | Pro | Pro | Pro | Thr | Ser 250 | | Pro | Thr | Tyr | Gln 255 | _ |
| Leu | Lys | Gly | Arg 260 | | Glu | Asn | Tyr | Arg 265 | | Thr | Val | Ser | Val 270 | | Ala |
| Ser | Gly | His 275 | Thr | Сув | Gln | Arg | Trp 280 | Ser | Ala | Gln | Ser | Pro 285 | | Lys | His |
| Asn | Arg 290 | Thr | Pro | Glu | Asn | Phe 295 | Pro | Сув | Lys | Asn | Leu 300 | Glu | Glu | Asn | Туг |
| Сув 305 | Arg | Asn | Pro | Asp | Gly 310 | Glu | Thr | Ala | Pro | Trp 315 | Сув | Tyr | Thr | Thr | Asp 320 |
| Ser | Glu | Val | Arg | Trp 325 | Asp | Tyr | Сув | Lys | Ile 330 | Pro | Ser | Сув | Gly | Ser 335 | Ser |
| Thr | Thr | Ser | Thr 340 | Glu | His | Leu | Asp | Ala 345 | Pro | Val | Pro | Pro | Glu 350 | Gln | Thr |
| Pro | Val | Ala 355 | Gln | Asp | Cys | Tyr | Arg 360 | Gly | Asn | Gly | Glu | Ser 365 | Tyr | Arg | Gly |
| Thr | Ser 370 | Ser | Thr | Thr | Ile | Thr 375 | Gly | Arg | Lys | Сув | Gln 380 | Ser | Trp | Val | Ser |
| Met 385 | Thr | Pro | His | Arg | His 390 | Glu | Lys | Thr | Pro | Gly 395 | Asn | Phe | Pro | Asn | Ala 400 |
| Gly | Leu | Thr | Met | Asn 405 | Tyr | Cys | Arg | Asn | Pro 410 | Asp | Ala | Asp | Lys | Ser 415 | Pro |
| ľrp | Cys | Tyr | Thr 420 | Thr | Asp | Pro | Arg | Val 425 | Arg | Trp | Glu | Tyr | Cys 430 | Asn | Leu |

Lys Lys Cys Ser Glu Thr Glu Gln Gln Val Thr Asn Phe Pro Ala Ile

435

| Ala | Gln 450 | Val | Pro | Ser | Val | Glu 455 | Asp | Leu | Ser | Glu | Asp 460 | Сув | Met | Phe | Gly |
|------------|------------|------------|------------|------------|------------|------------|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Asn 465 | Gly | Lys | Arg | Tyr | Arg 470 | Gly | Lys | Arg | Ala | Thr 475 | Thr | Val | Ala | Gly | Val 480 |
| Pro | Сув | Gln | Glu | Trp 485 | Ala | Ala | Gln | Glu | Pro 490 | His | Arg | His | Ser | Ile 495 | Phe |
| Thr | Pro | Glu | Thr 500 | Asn | Pro | Arg | Ala | Gly 505 | Leu | Glu | Lys | Asn | Tyr 510 | Сув | Arg |
| Asn | Pro | Asp 515 | Gly | Asp | Asp | Asn | Gly 520 | Pro | Trp | Сув | Tyr | Thr 525 | Thr | Asn | Pro |
| Gln | Lys 530 | Leu | Phe | Asp | Tyr | Сув 535 | Asp | Val | Pro | Gln | Cys 540 | Val | Thr | Ser | Ser |
| Phe 545 | Asp | Сув | Gly | Lys | Pro 550 | Lys | Val | Glu | Pro | Lys 555 | Lys | Сув | Pro | Ala | Arg 560 |
| Val | Val | Gly | Gly | Сув 565 | Val | Ser | Ile | Pro | His 570 | Ser | Trp | Pro | Trp | Gln 575 | Ile |
| Ser | Leu | Arg | Tyr 580 | Arg | Tyr | Arg | Gly | His 585 | Phe | Cys | Gly | Gly | Thr 590 | Leu | Ile |
| Ser | Pro | Glu 595 | Trp | Val | Leu | Thr | Ala 600 | Lys | His | Cys | Leu | Glu 605 | Lys | Ser | Ser |
| Ser | Pro 610 | Ser | Ser | Tyr | Lys | Val 615 | Ile | Leu | Gly | Ala | His 620 | Glu | Glu | Tyr | His |
| Leu 625 | Gly | Glu | Gly | Val | Gln 630 | Glu | Ile | Asp | Val | Ser 635 | Lys | Leu | Phe | Lys | Glu 640 |
| Pro | Ser | Glu | Ala | Asp 645 | Ile | Ala | Leu | Leu | Lys 650 | Leu | Ser | Ser | Pro | Ala 655 | Val |
| Ile | Thr | Asp | Lys 660 | Val | Ile | Pro | Ala | Сув 665 | Leu | Pro | Thr | Pro | Asn 670 | Tyr | Val |
| Val | Ala | Asp 675 | Arg | Thr | Ala | Cys | Tyr 680 | Ile | Thr | Gly | Trp | Gly 685 | Glu | Thr | Lys |
| Gly | Thr | Tyr | Gly | Ala | Gly | Leu | Leu | Lys | Glu | Ala | Arg | Leu | Pro | Val | Ile |



700

Glu Asn Lys Val Cys Asn Arg Tyr Glu Tyr Leu Gly Gly Lys Val Ser 705 710 715 720

Pro Asn Glu Leu Cys Ala Gly His Leu Ala Gly Gly Ile Asp Ser Cys
725 730 735

Gln Gly Asp Ser Gly Gly Pro Leu Val Cys Phe Glu Lys Asp Lys Tyr
740 745 750

Ile Leu Gln Gly Val Thr Ser Trp Gly Leu Gly Cys Ala Leu Pro Asn
755 760 765

Lys Pro Gly Val Tyr Val Arg Val Ser Arg Phe Val Thr Trp Ile Glu
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Glu Ile Met Arg Arg Asn 785 790

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hawaaugucu 10

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Ala Ala Pro Val

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- <210> 16
- <211> 4
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- <223> Description of Artificial Sequence:synthetic, substrate
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- Ala Ala Pro Ala

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- <212> PRT
- <213> Homo sapiens
- <400> 17
- Arg Asn Pro Asp Gly Asp Val Gly Gly Pro Trp Cys Tyr Thr Thr Asn 1

10 15

Pro Arg